

# Marian Handrik

## List of Publications by Year in descending order

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50  
papers

296  
citations

1040056

9  
h-index

996975

15  
g-index

51  
all docs

51  
docs citations

51  
times ranked

194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue Resistance of Reinforcing Steel Bars. <i>Procedia Engineering</i> , 2016, 136, 193-197.	1.2	31
2	Comparing mechanical properties of composites structures on Onyx base with different density and shape of fill. <i>Transportation Research Procedia</i> , 2019, 40, 616-622.	1.5	25
3	CONTRIBUTION TO RANDOM VIBRATION NUMERICAL SIMULATION AND OPTIMISATION OF NONLINEAR MECHANICAL SYSTEMS. <i>Scientific Journal of Silesian University of Technology Series Transport</i> , 2019, 103, 143-154.	0.4	22
4	A Plastic Strain and Stress Analysis of Bending and Torsion Fatigue Specimens in the Low-cycle Fatigue Region Using the Finite Element Methods. <i>Procedia Engineering</i> , 2017, 177, 526-531.	1.2	21
5	Computational Modeling of the Microplasticization State in the Nodular Cast Iron. <i>Applied Mechanics and Materials</i> , 0, 474, 285-290.	0.2	20
6	Simulation and Analysis of Defect Distribution in Passenger Car Tire under Dynamic Loading. <i>Applied Mechanics and Materials</i> , 0, 611, 544-547.	0.2	20
7	Analysis of Stress and Strain of Fatigue Specimens Localised in the Cross-sectional Area of the Gauge Section Testing on Bi-axial Fatigue Machine Loaded in the High-cycle Fatigue Region. <i>Procedia Engineering</i> , 2017, 177, 516-519.	1.2	20
8	The Linear and Nonlinear Stability Loss of Structures Due to Thermal Load. <i>Procedia Engineering</i> , 2016, 136, 359-364.	1.2	19
9	Mechanical properties of structures produced by 3D printing from composite materials. <i>MATEC Web of Conferences</i> , 2019, 254, 01018.	0.2	17
10	Use of Trefftz functions in non-linear BEM/FEM. <i>Computers and Structures</i> , 2004, 82, 2351-2360.	4.4	10
11	FEM analysis of long-fibre composite structures created by 3D printing. <i>Transportation Research Procedia</i> , 2019, 40, 792-799.	1.5	9
12	Impact Toughness of FRTP Composites Produced by 3D Printing. <i>Materials</i> , 2020, 13, 5654.	2.9	9
13	Tensile Properties of Additively Manufactured Thermoplastic Composites Reinforced with Chopped Carbon Fibre. <i>Materials</i> , 2022, 15, 4224.	2.9	9
14	Analysis of Force Conditions of the Hot Forming Machine in Rolling-Out of Bearing Rings. <i>Manufacturing Technology</i> , 2015, 15, 821-825.	1.4	8
15	Numerical Analysis of Stress States for Graphitic Cast Iron Structures. <i>Applied Mechanics and Materials</i> , 0, 611, 252-255.	0.2	6
16	Tensile test for specimen with different size and shape of inner structures created by 3D printing. <i>Transportation Research Procedia</i> , 2019, 40, 671-677.	1.5	6
17	Identification of Physical Characteristic of Composite Materials Produced by Additive Technology from Perspective of Selected Mechanical Properties. <i>Acta Physica Polonica A</i> , 2020, 138, 249-252.	0.5	5
18	The Numerical Analysis of the Joint of the Steel Beam to the Timber Girder. <i>Procedia Engineering</i> , 2014, 91, 160-164.	1.2	4

#	ARTICLE	IF	CITATIONS
19	Proposal of Physical Model for Damage Simulation of Composite Structures Produced by 3D Printing. Acta Physica Polonica A, 2020, 138, 245-248.	0.5	4
20	Effective algorithm for structural optimization subjected to fatigue damage and random excitation. Scientific Journal of Silesian University of Technology Series Transport, 2018, 99, 149-161.	0.4	3
21	Computing of truss structure using MATLAB. Manufacturing Technology, 2020, 20, 279-285.	1.4	3
22	Design of a computational model for multi-body contact of deformable bodies in the flowing fluid. MATEC Web of Conferences, 2018, 157, 02012.	0.2	2
23	Numerical analysis of stiffener for hybrid drive unite. MATEC Web of Conferences, 2018, 157, 02015.	0.2	2
24	Modification of the optimization model for simulation of large-diameter pipes bending. MATEC Web of Conferences, 2019, 254, 02024.	0.2	2
25	Parallel Image Signal Processing in a Distributed Car Plate Recognition System. , 2020, , .		2
26	Finite Displacements in Reciprocity Based Multi-Domain BE/FE Formulations. , 2002, , 11-29.		2
27	Influence of the Shape of the Test Specimen Produced by 3D Printing on the Stress Distribution in the Matrix and in Long Reinforcing Fibers. Strojnický Casopis, 2019, 69, 61-68.	0.9	2
28	FEM Simulation of Non-proportional Multiaxial Fatigue Damage. MATEC Web of Conferences, 2022, 357, 02006.	0.2	2
29	Determination the maximum load capacity of the welded structure of the transport carriage in operation. MATEC Web of Conferences, 2018, 157, 02002.	0.2	1
30	Optimization and design of the vulcanization press sandwich pressure plate parameters. MATEC Web of Conferences, 2018, 244, 01005.	0.2	1
31	Analysis of the influence of the pipe's wall thickness on the corrugation of the surface during inductive bending of pipes. MATEC Web of Conferences, 2018, 157, 02044.	0.2	1
32	Parallelization of computational algorithms for optimization problems with high time consumption. MATEC Web of Conferences, 2018, 157, 02054.	0.2	1
33	Use of the BOINC system for distributed data collection in the "Internet of Things". MATEC Web of Conferences, 2018, 157, 05009.	0.2	1
34	The damage analysis of the reinforced concrete beam and the prestressed reinforced concrete beam. MATEC Web of Conferences, 2018, 157, 02055.	0.2	1
35	Numerical study of the relation between chosen statistical parameters of input stresses and cumulative fatigue damage provided rainflow decomposition. MATEC Web of Conferences, 2019, 254, 02006.	0.2	1
36	Vertical oscillation investigation of spatially elastically supported rigid plate " vehicle model. MATEC Web of Conferences, 2019, 254, 03010.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Design and stress analysis of wheeled compactor construction. MATEC Web of Conferences, 2019, 254, 02012.	0.2	1
38	Construction design and structural analyse of transfer system. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012032.	0.6	1
39	FE modeling of continuous fiber reinforced thermoplastic composite structures produced by additive manufacturing. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012080.	0.6	1
40	Comparation of nonuniform and uniform Monte - Carlo Searching. MATEC Web of Conferences, 2018, 244, 01016.	0.2	0
41	Numerical simulation and experimental verification of torsion fatigue tests for material Weldox. Transportation Research Procedia, 2019, 40, 631-638.	1.5	0
42	Fatigue characteristics of welded high strength steel in the low cycle region of loading. MATEC Web of Conferences, 2019, 254, 07002.	0.2	0
43	Comparison of FE analysis and experimentally obtained data for the identification of residual stresses in welded high-strength steel. MATEC Web of Conferences, 2019, 254, 02026.	0.2	0
44	Stress analysis of specimen with a reinforced thin layer. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012031.	0.6	0
45	Numerical study of linearization techniques for Bouc-Wen hysteresis model considering random inputs. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012059.	0.6	0
46	Thermal-stress analysis of vulcanization molds to determine the dilatation gap between aluminum segments. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012053.	0.6	0
47	Measurement and comparison study of deformation using extensometer and 2D DIC technology. IOP Conference Series: Materials Science and Engineering, 2020, 776, 012065.	0.6	0
48	Influence of Fiber Deposition and Orientation on Stress Distribution in Specimens Produced Using 3D Printing. Strojnický Casopis, 2019, 69, 81-88.	0.9	0
49	Analysis of Stress Intensity Factor on Weld Surface. MATEC Web of Conferences, 2022, 357, 02005.	0.2	0
50	Numerical analysis and optimization of large dimensioned structures considering stress concentrations in welded joint. MATEC Web of Conferences, 2022, 357, 02002.	0.2	0